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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/889,375	07/16/2001	Takashi Harada	WATK:213	2673
7590	03/16/2004		EXAMINER	
Parkhurst & Wendel 1421 Prince Street Suite 210 Alexandria, VA 22314-2805				JOHNSON, JONATHAN J
		ART UNIT	PAPER NUMBER	1725

DATE MAILED: 03/16/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/889,375	HARADA ET AL.
	Examiner	Art Unit
	Jonathan Johnson	1725

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 16 July 2001.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-18 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 7-16-01; 9-5-02
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-12 and 14-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Mizuno et al. (5,063,029). Mizuno et al. teach a honeycomb structure having a large number of through-holes formed in the axial direction and defined by partition walls, wherein slits are formed so as to be exposed to at least part of the outer surface of the honeycomb structure along the axial direction (Figure 4, item 12); where the slits are formed in parallel to the direction of the through holes (Figure 4, through holes and item 12); where the slits are formed at least one end surface of the edge (Figure 4, item 12); where the length of each slit formed at the edge of one surface is in the axial direction of the outer surface (Figure 4, item 12 outer surface), 10% or more of the total length of the honeycomb structure (Figure 4, item 12) and at the end surface, 10% or more of the diameter of the honeycomb structure (Figure 4, item 12); where each slit is exposed to at least one end surface so as to connect the two points of the end surface (Figure 4, item 12 across honeycomb); where each slit is exposed to the outer surface over its total length in the through-hole direction (Figure 4, item 12); where each section of the honeycomb structure including each slit there is a continuous area in which no slit is formed and which is not exposed to the outer surface of the honeycomb structure (figure 4, honeycomb); where the honeycomb

section which is normal to the through-holes and in which the length of each slit is the largest, the length of each slit is 30% or more of the distance between the outer surface along the axial direction and the center of the honeycomb structure (figure 4, item 12); wherein each slit is filled with a filler (col. 5, ll. 34-35); wherein it is a combination of two or more honeycomb structures (figure 4, honeycomb openings); which uses a metal having catalytic action and usable for purification (col. 5, ll. 34-47); where the catalytic action is at least one from Pt, Pd, and Rh (col. 5, ll. 40-42); where the section shape of the through-holes is a triangle, a tetragon, a hexagon and a corrugation (col. 1, ll. 45-60); where the partition walls have a filtration ability (col. 1, ll. 15-25); where the filter is capable of capturing and removing the particulate matter contained in a dust containing fluid (col. 1, ll. 15-30).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mizuno et al. as applied to Claim 1 above and further in view of Abe et al. (5,538,697). Abe et al. teach the honeycomb is made of cordierite (col. 4, ll. 18-24). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the honeycomb structure of Mizuno et al. to utilize a cordierite in order to it has a low heat conductivity (col. 4, ll. 18-24).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jonathan Johnson whose telephone number is 571-272-1177. The examiner can normally be reached on M-Th 7AM-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on 571-272-1171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Jonathan Johnson
Examiner
Art Unit 1725

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